



OZpcs-RS40

Energy Storage Power Conversion System

Rack Scale™ Series

OZ PCS

Modular Energy Storage Power Conversion



Flexible

- 208 - 480 V_{RMS} AC Line Interface
- 50 or 60 Hz AC Line Frequency
- 330 - 820 V_{DC} Input
- Transformerless Design

Scalable

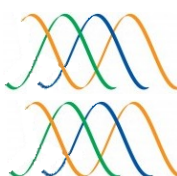
- Designed to be paralleled for high power applications.
- Compact 2.5U 19" rack mounted enclosure
- Front-side terminations for easy cable routing

Integrated

- AC Circuit Breaker & Contactor
- DC Contactor
- Pre-Charge Circuitry
- Variable Speed Forced Air Cooling

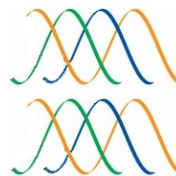
Distributed energy storage system design just got easier. With a compact, 2.5U form factor, the transformerless **OZpcs-RS40** power conversion system installs directly into Li-Ion battery racks. Front-side terminations simplify interconnect, and the fully parallelable, 40kW architecture permits easy system expansion.

Offering wide 208-480VAC and 330-820VDC operating ranges, advanced "Smart Inverter" features, and design and certification for energy storage applications, system design doesn't get any easier.



SunSpec/MESA-PCS

L/HVRT, L/HFRT



UL-1741-SA

Volt-VAR Mode



OZpcs-RS40 Specifications

- **Reduce Time to Market**

- ◆ *Easy paralleling allows for quick product scaling*
- ◆ *19" rack mount design*

- **Worldwide Application**

- ◆ *Wide AC voltage range*
- ◆ *50/60 Hz*

- **Features**

- ◆ *UL1741-SA Smart Inverter Functions*
- ◆ *Integrated Data Logging*

- **Industry Std Interface**

- ◆ *SunSpec/MESA-PCS*
- ◆ *Modbus RS-485*

DC Connection

Operating Voltage Range	330 - 820 VDC
Full Power Voltage Range	550 - 820 VDC
Max DC Current	+/- 75 A
Max DC Power	40 kW
Wiring Configuration	2 Wire

AC Connection

Max AC Power	40kVA @ 480 V _{RMS}
Max AC Current	50Arms
AC Line Voltage	208 - 480 V _{RMS}
AC Line Frequency	50 / 60 Hz
Power Factor	> 0.97 at rated power
Current Harmonics	IEEE 1547 Compliant, <3%THD
Typical Efficiency	97 %

Environmental

Operating temp	0°C to 45°C 45°C to 60°C Derated
Cooling	Forced air by internal variable speed fans
Max Elevation	1,000m No Derating 1,000m - 3,000m Derated
Enclosure	2.5U, 19" Rack Mount
Weight	97 Lbs
Ingress protection	IPC20

User Interface

Isolated Communication Link	Modbus RS-485
Register Mapping	SunSpec/MESA-PCS
Isolated Digital Inputs	<ul style="list-style-type: none"> • Emergency Shutoff • Bias Enable
Isolated Digital Outputs	<ul style="list-style-type: none"> • User Configurable 1 • User Configurable 2
Indicator LEDs	<ul style="list-style-type: none"> • Fault • Operating • Standby • Power On
Warranty	10 Years

